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| ACCESSION NR: AP5019462 | 10 | | |
| AUTHOR: Frolov. V. V. TITLE: Scientific Conference of MIFI (Moscow Engineering Physics Institute) | | | |
| SOURCE: Atomnaya energiya, v. 17, no. 4, 1701, December 1700 TAGS: nuclear physics conference | | | |
| ABSTRACT: About 250 papers were presented at the ABSTRACT: About 250 papers were presented at the ABSTRACT: About 250 papers were presented at the above of interest to ference of the MIFI, held in May 1964. Among papers of interest to ference of the MIFI, held in May 1964. Among papers of interest to nuclear physics nuclear scientists were those in the experimental nuclear physics nuclear scientists were those in the experimental nuclear physics nuclear physics nuclear physics of above the study of particles; theoretical nuclear physics nuclear physics and their role section (papers on "Moving branching points on a j-plane and their role section (papers on "Moving reactions at great energies"; "On the problem the asymptote of strong reactions at great energies"; "On the problem the asymptote of strong reactions at great energies"; "On the problem the asymptote of strong reactions at great energies"; "On the problem the asymptote of strong reactions at great energies"; "On the problem the asymptote of strong reactions at great energies"; "On the problem the asymptote of strong reactions at great energies"; "On the problem the asymptote of strong reactions at great energies"; "On the problem the asymptote of strong reactions at great energies"; "On the problem the asymptote of strong reactions at great energies"; "On the problem the asymptote of strong reactions at great energies"; "On the problem the problem that the problem the problem that the | ler 1 | | |
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L 61695-65 ACCESSION NR: AP5019462 properties of substances in industrial application; radioactive isotope and nuclear radiation analysis methods; study of the effects of nuclear radiation on solids. Papers on dosimetry and safety and on strength physics (materials engineering) were presented in sections devoted to these subjects. The electrophysical section heard papers on theoretical work on linear accelerators and high-energy particle separators; experimental work in the development of linear accelerators and particle separators; and works on physical electronics. Many students were among those presenting papers. ASSOCIATION: none SUB CODE: ENCL: 00 SUBMITTED: 00 **JPRS** OTHER: 000 NR REF EOV: 000

UR/0089/65/019/003/0314/0316 AUTHOR: Frolow, V. V. ORG: none TITLE: Scientific conference of MIFI (Moscow Engineering and Physics Institute) SOURCE: Atomaya energiya, v. 19, no. 3, 1965, 314-316 TOPIC TAGS: muon hydraulic resistance, mass spectrometry, linear accelerator, electron accelerator, ion beam, laser beam, physics conference, erosion, gas discharge, ABSTRACT: The annual MTFI scientific conference hear 210 reports in 53 sessions of 22 sections when the 2000 participants met 5-21 May 1965. Among the most interesting reports and subjects discussed were: the energy spectra of cosmic muons at great zenith distances in the 1011-1012 ev energy range; the construction of a strictly phenomenological approach to the theory of the nucleus and the problem of many bodies; new synthetic methods of calculation of distribution of neutron fields in reactors; hydraulic resistance and heat exchange upon longitudinal flow around a group of rods; the study of molecular processes with mass spectrometry; the influonce of electric fields on photographic emulsion density; the influence of inhomogeneities in shielding on its effectiveness; theoretical and experimental studies of linear electron accelerators; the effect of erosion,

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ACC NR. A16032409

SOURCE CODE: UR/0089/66/021/003/0220/0222

AUTHOR: Frolov, V. V.

ORG: none

TITLE: MIFI Scientific conference

SOURCE: Atomnaya energiya, v. 21, no. 3, 1966, 220-222

TOPIC TAGS: physics conference, high energy particle, meson, hyperon, neutron distribution, plastic deformation, electron flux, neutron diffusion, eigenvalue, metal zone melting

ABSTRACT:

The twenty-third annual scientific conference of the Moscow Engineering Physics Institute (MIFI) was held from 5 to 20 May 1966. Approximately 900 participants from various scientific-research institutes, universities, and factories heard about 300 reports by the instructors and students of the Institute and also by colleagues from other scientific institutions.

Several highly interesting papers were presented on the physics of high-energy particles. In particular, V. V. Borog and his co-

Card 1/6

ACC NR: AP6032409

workers reported on experiments on electron-photon cascades produced in iron by muon cosmic rays with energies of $8\cdot10^{11}$ ev performed with an ionization calorimeter. The results were compared with theoretical cascade curves for various values of radiation units with the best agreement obtained when the radiation unit $t = 14 \text{ g/cm}^2$.

V. S. Demidov and others reported on the pair production of strange particles in research conducted with the 105-cm MIFI propane-freon bubble chamber. The mass spectrum was obtained in the K^0 λ^0 -system. Demidov and his colleagues also studied the production of K^0 -mesons and λ -hyperons on hydrogen and light nuclei by 4 Bev/c π -mesons. The energy and momentum distributions of the K^0 -mesons and the λ -hyperons were also determined.

Of paramount interest in the field of reactors were the reports delivered by V. V. Khromov, I. S. Slesarev, A. M. Kuz'min, and others devoted to numerical methods of calculating reactors. Precise ways of determining a neutron field, and also effective methods of finding the criticality conditions and neutron distribution in multi-dimensional geometries were presented. The algorithms proposed

Card 2/6

ACC NR: AP6032409 significantly shorten computer operation time and are particularly useful in variational calculations. In reports on reactor theory, S. B. Shikhov, L. K. Shishkov, and others presented proof for the existence and uniqueness of the solution of neutron transport equations and of problems of nonlinear reactor dynamics (self-oscillating regimes). Shishkov and Shikhov also collaborated on a paper dealing with a theory of higher order perturbations for solving certain reactor calculation. problems. It was reported that the variation of the neutron transport operator eigenvalue and its eigenfunction (neutron flux) can be obtained without a complete set of eigenfunctions. Even in the first approximation this method permits a more exact calculation of Keff than with the generally accepted perturbation theory. In the area of the physics of shielding, I. E. Konstantinov and B. Ya. Narkevich reported the development of a new method of measuring spatial distribution of doses and fluxes of electrons during the passage of a thin beam of β -particles through a light material using a scintillation spectrometer. This method, based on the Card 3/6

ACC NR: AF6032409 use of thin scintillating films and the designed detector, makes possible measurements without addition of perturbations to the investigated object. The absorbed dose is determined exactly both within and outside the beam. A report on experimental research conducted by S. B. Stepanov and his colleagues on the diffusion parameters of hydrogeneous media evoked great interest among the conferees. In this work, the interrelationship between the neutron diffusion coefficient and the self-diffusion coefficient of the medium was determined. V. I. Deyev and G. P. Dubrovskiy reviewed the results of their experimental research on heat transfer and critical heat loads in volume boiling of water under a vacuum. It was shown that the boiling of water and liquid metals under low pressures is similar. L. S. Kokorev and others described a new method of determining 'the contact angle in liquid metal wetting by measuring the maximum temperature in a gas bubble. New data was presented on the angle of contact for sodium and potassium. Card 4/6

ACC NR. AL 6032409

Growing of molybdenum monocrystals by the zone melting method was described by Ye. M. Savitskiy and G. I. Burkhanov. A. A. Rusakov and others studied the fine structure of molybdenum monocrystals grown by precipitation from the gas phase. A. I. Yevstyukhin and his colleagues reported on the peculiarities of plastic deformations of molybdenum monocrystals during rolling and tension, and N. F. Litvinova reported on methods of determining the gas content in puremolybdenum.

In a series of papers, P. L. Gruzin, L. A. Alekseyev, G. N. Shlokov, and others presented the results of investigations of properties of solids by the Mössbauer method. Of particular note was a report on research conducted on the properties of stanniferous ferrites of the magnesium-manganese system for which the intrinsic effective magnetic fields of the Sn¹¹⁹ nuclei and their temperature variations were determined from the Zeeman patterns. The practical uses of the Mössbauer method for solving technological problems in obtaining ferrites with the necessary magnetic properties were also discussed.

Card 5/6

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| | v, P. M.; Vladykov, G. M.; Guill, v. M.; Frgin, V. P.; Vaymugin, A. A.; Sviridenko, avilov, V. V. | |
| Critical parameters of systems with fission handbook (Kriticheskiye parametry sistem handbook (Kriticheskiye parametry sistem handbook) Marchaganat': sprayochnik) M | | |
| TOPIC TAGS: nuclear safety, nuclear react | tor, homogeneous nuclear reactor, eaction | • |
| PURPOSE AND COVERAGE: This handbook is in the problems of assuring nuclear safet; signing, operating, and studying the pass well as for students in associated creating and maintaining conditions wh accidentally chain reaction during the fissionable materials. The book is be lished before 1965. In addition to in with fissionable materials, the suthor handbook the fundamental concepts of cases of the occur | ntended for specialists concerned with y as well as for persons calculating, de- bysics of nuclear reactors of various types departments. The book discusses methods of sich will exclude the possibility of an expressing, storage, and transportation of processing, storage, and transportation of seed mainly on the results of studies publication on critical parameters of systems are considered it useful to include in the criticality, principles for assuring nuclear respect of uncontrolled chain reactions, | |
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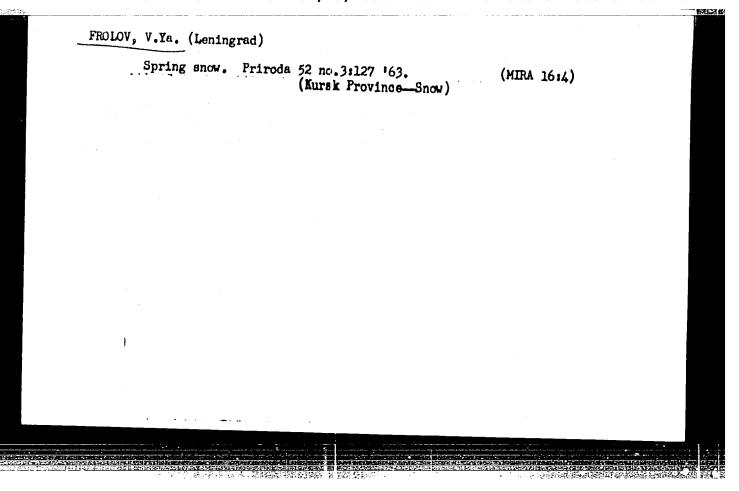
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| and the basic standards for nuclea M. P. Rodionov, T. I. Sukhoverkhov their valuable assistance. There | r safety. The author a, H. A.Gavrilova, an are 64 references. 30 | s express appreciat d L. V. Antonkina i | tion to | |
| TABLE OF CONTENTS (Abridged) | , , | and boyle | | |
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| Ch. VII. Basic standards for assuring References 223 SUB CODE: 18/ SUBM DATE: 20May66/ Card 2/2 | • · | | | |
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FROLOV, V.V. (Moskva)

Optimal system of radiating fins. Izv. AN SSSR Energ. 1 transp. 6:750-755 N-D **164. (MIRA 18:3)

| L 32031-66 EWT(m)/EWP(y)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/WW/HM/JG ACC NR: AP6019426 (N) SOURCE CODE: UR/0135/66/000/006/0007/0010 | |
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| SOURCE CODE: UR/0135/66/000/006/0007/0010 | |
| AUTHOR: Frolov, V. V. (Doctor of technical sciences); Gorshkov, A. I. (Candidate of | |
| ORG: none | |
| TITLE: Effect of hydrogen on the formation | |
| TITLE: Effect of hydrogen on the formation of porosity during argon-shielded arc | |
| SOURCE: Svarochnoye proizvodstvo, no. 6, 1966, 7-10 | |
| TOPIC TAGS: titanium alloy, titanium alloy welding, argon shielded welding, alloy weld, weld porosity, hydrogen porosity, arc welding/VTI-2 alloy, VTI4 alloy, VTI5 | |
| ABSTRACT: The relationship between porosity formation and hydrogen diffusion in titanium alloy welds has been investigated. VT1-2, VT14, and VT15 alloy sheets 2.5, 250 and 1.2 mm thick were welded under the following respective conditions: current 165, The experiments showed that the maximum description of hydrogen and 0.7 cm/sec. | , |
| The experiments showed that the maximum desorption of hydrogen occurred in the front concentrations of hydrogen in titanium. Diffusion of hydrogen depends on the heat diffused hydrogen from 2.1.10 ⁻⁴ to 16.10 ⁻⁴ cm ³ and the weld porosity about 8 times. | |
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FROLOV, Viktor Yakovlevich, tokar'; CHERNOV, Ye., red.; LIL'YE, A., tekhn.

[Everyone can have skilful hands] Umelye ruki mogut byt' u kashdogo. [Moskva] Moskovskii rabochii, 1957. 46 p. (MIRA 11:5)

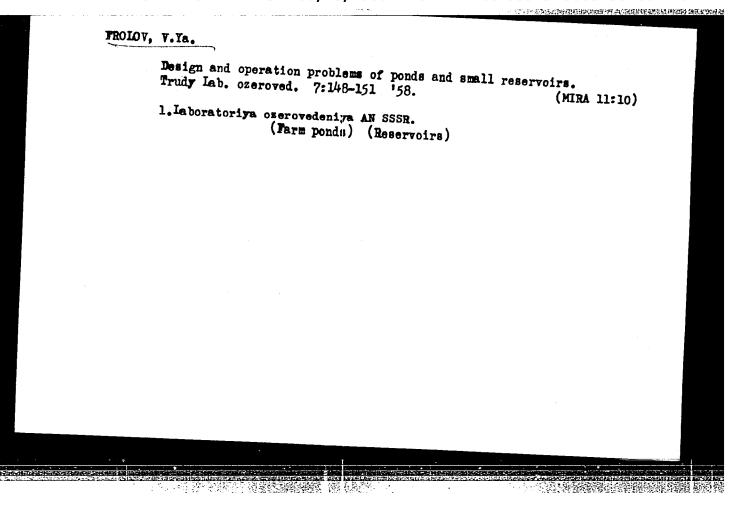
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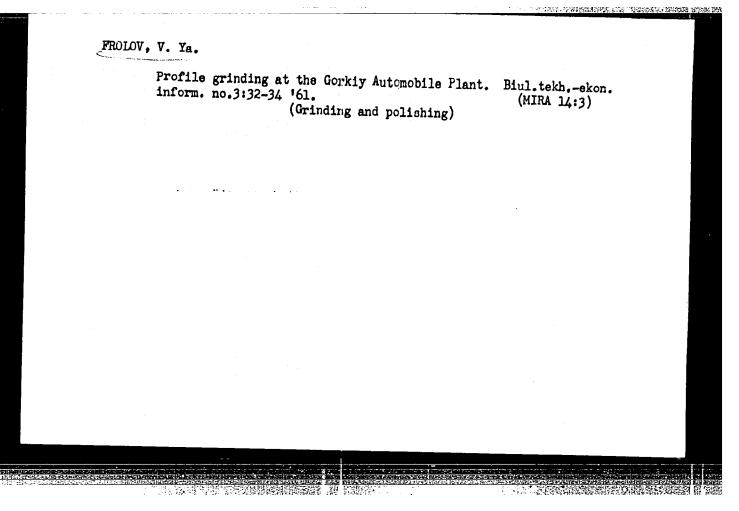
(Technical education)

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(Railroads--Hanagement)



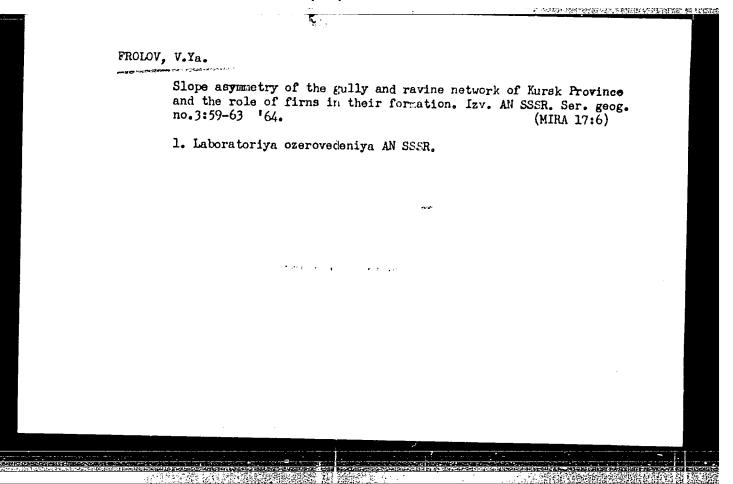


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FROLOV, V. Le.

USSR/ Miscellaneous - Ceramics manufacture

Card 1/1

Pub. 123 - 7/16

Authors

Nagornyy, A. I.; Frolov, V. E.; Lebedev, M. A.; Khokhol kova, L. A.; and Mikhaylyants, V. A.;

Title

Manufacture of ceramic sewer pipes from Lengersk infusible clay

Periodical

Vest. AN Kaz. SSR 12, 63-67, Dec 1954

Abstract

The possibility of manufacturing high-quality ceramic sewer pipes from infusible Lengersk clays are discussed. The technological process employed in the manufacture of refractory tubes is described. Two USSR references (1941 and 1952). Tables.

Institution :

Submitted

M. I. Goryaev, Active Member of Acad. of Sc. Kaz-SSR

BRAGINSKIY, k.I.; FROLOV, Ya.A.

Mathematical analysis of the behavior of glass during rolding.
Stek. i ker. 18 no.10:22-26 0 'fl. (MIRA 14:11)

(Glass manufacture)

GUR'YANOVA, M.F.; FROLOV, Ya.A.

"Granulating" a glass batch with large-grained sand. Stek. i ker.
18 no.10:26-27 0 '61. (MIRA 14:11)

(Glass manufacture)

AKRIDIN, A., inzh.; FROLOV, Ye., inzh.

Two-cantilever roof panels measuring 3x12 made of keramzit concrete.

Na stroi.Ros. 3 no.6:27-28 Je '62. (MIRA 16:7)

(Keramzit) (Roofing, Concrete)

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TTOLOV, Ye 17. VASSOYEVICH, N.B., prof., doktor geol.-miner.nauk; ANDREYKV, P.F., kand. khim.nauk; BELYAKOV, M.F., kend.geol.-miner.nauk; BARANOVA, T.E., nauchnyy sotrudnik; BUSHINSKIY, G.I., prof.; ŒKKKR, R.F., prof., doktor biolog.nauk; OROSSGEYM, V.A., kand.geol.-miner.nauk; ITEMBERG, S.S., dotsent; KRISHTOFOVICH, A.N.; LYUBOMIROV, B.N., kand.geol.-miner.nauk; PORFIR'YEV, G.S., kand.geol.-miner.nauk; POKROVSKAYA, I.M., prof., doktor geol.-miner.nauk; RADCHENKO, O.A., kand.khim.nauk; RUKHIN, L.B., prof., doktor geol.-miner.nauk; TORGOVANOVA, V.B., gidrogeolog; USPENSKIY, V.A., kand.khim.nauk; FROLOV. Ya.F., kend.geol.-miner.nauk; FURSENKO, A.V.; KHAIN, V.Ye., prof., doktor gool.-miner.nauk; SHARONOV, V.V., prof., doktor fiziko-matem.nauk; YASHCHURZHINSKAYA, A.B., vedushchiy red.; SOKOLOVA, Ye.V., tekhn.red. (Continued on next card) 一个公司是其实是由于中国的企业,但是是自然的

VASSOYEVICH, N.B.--(continued) Card 2.

[Handbook for field geologists and petroleum prospectors]

Sputnik polevogo geologa - neftianika. Leningrad, Gos.nauchnotekhn.izd-vo neft. i gorno-toplivnoi lit-ry, Leningr.otd-nie,

1952. 504 p. (MIRA 12:12)

1. Groznenskiy ordena Trudovogo Krasnogo Znameni neftyenov institut (for Itenberg). 2. Deystvitel'nyy chlen AN Ukrainskoy SSR (for Krishtofovich). 3. Chlen-korrespondent AN Belorusskoy SSR (for Fursenko).

(Petroleum geology--Handbooks, manuals, etc.)

FROLOV, Nikolay Fedorovich; FROLOV, Yevgeniy Fedorovich; PERSHINA, E.G., vedushchiy redaktor; SHIKIN, S.T., tekhnichetkiy redaktor;

[Geological observations and structures during the drilling of deflected wells) Geologicheskie nabliudeniia i postroeniia pri burenii iskrivlennykh skvazhin, Moskva, Gos.nauchno-tekhn.izd-ve neft. i gorno-topliyaci lit-ry, 1957. 183 p. (MLRA 10:4) (Oil well drilling)

BROD, Ignatiy Osipovich; FROLOV, Yevgeniy Fedorovich; YERSHOV, P.R., vedushchiy redaktor; THOPINOV, A.V., tekhnicheskiy redaktor

[Search and exploration for oil and gas deposits] Poiski i razvedka neftianykh i gazovykh mestorozhdenii. Izd. 2-oe, perer. i dop.

Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi litry, 1957. 674 p.

(Petroleum) (Gas. Natural) (Prospecting)

SIVORHIMA, N.B.; FROLOV, Ye.F.

Determining the accuracy of well surveying measurements and calculating errors. Trudy VMII no.11:321-339 '57. (NLRA 10:11)

(Oil wells--Measurement)

FROLOU, Te. F.
FROLOV, Te.F.; SERGAHOVA, I.I.

Effect of well surveying errors on the accuracy of platform upland structural maps. Trudy VEII no.11:340-346; 57. (MIRA 10:11)

(Geology---Maps)

FROLOV. Vo. F., SERGANOVA, I.I.

Projecting deflected well logs on a profile section. Trudy VHII mo.ll:
347-354 *57. (NURA 10:11)

(Prospecting-Geophysical methods) (Geology, Stratigraphic)

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Venerous for calculation over in determine the scatter position of wall bottoms and relative position at the expense of wall deflection.

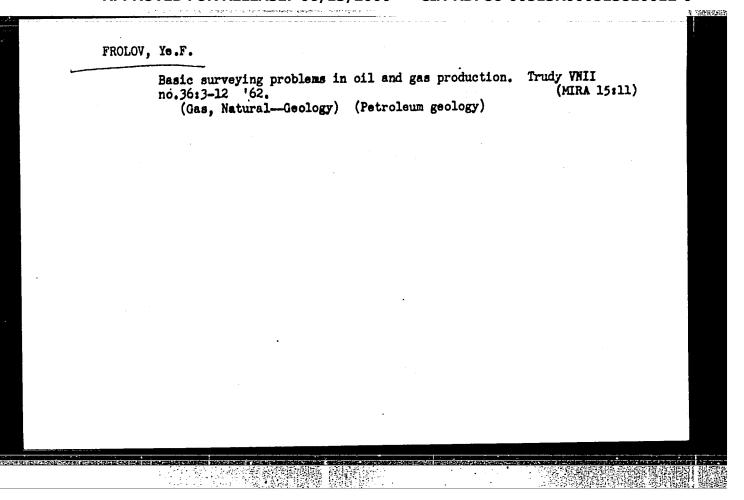
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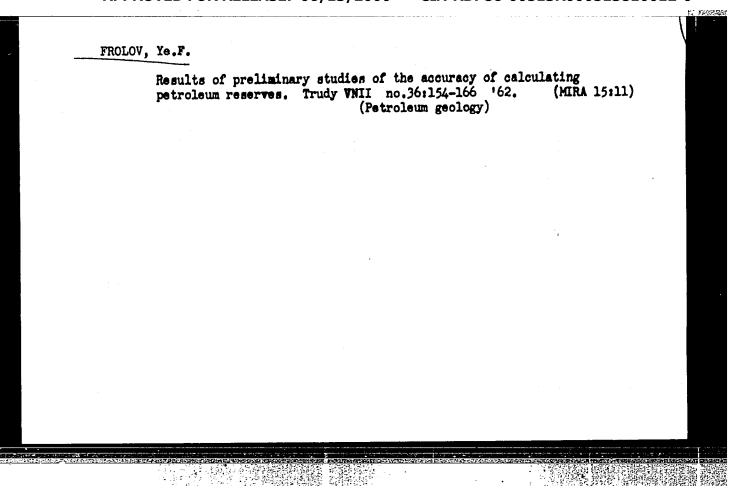
(Petrology entired)

(Petrology entired)

VASIL'YEV, Yu.S.; SIVOKHINA, N.B.; FROLOV, Ye.F.; CHERNOGIAZOVA, T.Ya.

Permissible deflections of bottom holes from the planned position; a topic for discussion. Neft. khoz. 39 no.4:14-20 Ap '61. (MIRA 14:6)





SIVOKHINA, N.B.; FROLOV, Ye.F.; CHERNOGLAZOVA, T.Ya.

Intersecting of the shafts of deflected wells. Trudy VNII no.36:
13-18 '62.

(Oil well drilling)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513810012-0"

FROLOV, Ye.F.; SIVOKHINA, N.B.; DEMENT'YEV, L.F.; KOCHETOV, M.N.; MOLOTOV, N.A.

Préliminary method of evaluating the accuracy of calculating petroleum reserves by the volume method. Trudy VNII no.36:38-56 162. (MIRA 15:11)

(Petroleum geology)

FROLOY, Ye.I.

Rare case of perforation of the intestinal wall by foreign bodies with the formation of an arteriovenoys aneurysm. Khirurgiia 38 no.10:124-125 0 '62. (MIRA 15:12)

1. Iz gospital'noy khirurgicheskoy kliniki (i. o. zav. kafedroy - dotsent G.N. Zakharova) Saratovskogo meditsinskogo instituta. (ABDOMINAL ANEURYSM) (INTESTINES—FOREICN BODIES)

PERESLEGIN, Viktor Ignat'yevich; FROLOV, Ye.P., otv. red.; MEDVEDEVA, R., red. izd-va; TELEGINA, T., tekhn. red.

[Regime of economy during the period of the building of communism]Rezhim ekonomii v period stroitel'stva kommunizma.

Moskva, Gosfinizdat, 1962. 86 p. (MIRA 16:2)

(Industrial management)

FROLOV, YE. P.

PHASE I BOOK EXPLOITATION

305

Ganshtak, Vladimir Iosifovich

Ocherki po ekonomike mashinostroitel'noy promyshlennosti SSSR (Essays on the Economics of the Machine-building Industry of the USSR) Simferopl', Mashgiz, 1957. 418 p. 6,000 copies printed.

Ed: Frolov, Ye. P.; Ed. of Publishing House: Bogolyubova, I.Yu. (Deceased); Tech. Ed.: El'kind, V.D.

PURPOSE: The book is intended for a wide circle of engineers, technical personnel, and economists in the machine-building industry, and also for scientific workers and students in institutions of higher learning.

COVERAGE: The book discusses the following basic problems of the economics of the USSR's machine-building industry: the development of machine building as a leading branch of industry; technical developments in machine building; concentration, specialization, cooperation, and combination in the machinebuilding industry; principal and turnover funds; personnel,

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Essays on the Economics of the Machine-building Industry (Cont.) 305 cadres, labor productivity, and wages; cost of production and profitableness in machine building. The book also indicates ways and means for greater utilization of resources in the further growth and improvement of production. According to the foreword, this is a first attempt to consider the principal questions of economics of machine building on the basis of their connections and interrelations. The text is abundantly illustrated with statistical data and examples. There are 250 Soviet references. TABLE OF CONTENTS: 3 Foreword-5 Introduction Ch. I. Machine Building -- Leading Branch of 18 Soviet Industry 18 Machine building in prerevolutionary Russia

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TROITSKIY, Petr Aleksandrovich; STUCHEVSKIY, Mark Pavlovich; MEYMAN, Z.N., inzh., retsenzent; FROLOV, Ya.P., inzh., retsenzent; BOGINSKIY, M.N., inzh., ekon., red.; TKACHUN, A.I., red.izd-va; KL'KIND, V.D., tekhn, red.

[Cost planning for machinery manufacturing plants; methods and practice] Planirovanie sebestoimosti na mashinostroitel'nom savode; metodika i praktika. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 249 p. (MIRA 12:4) (Machinery industry--Costs)

28(3) 5/028/60/000/02/022/024 DO41/DO02 AUTHOR: Frolov, Ye.S. TITLE: Conference on Complete Normalization of the Production Process Elements Standartizatsiya, 1960, Nr 2, pp 59 - 60 (USSR) PERIODICAL: ABSTRACT: Information is given on a conference convened in December 1959 by the Moskovskiy dom nauchno-tekhnicheskoy propagandy im.F.E. Dzerzhinskogo (Moscow House of Scientific-Technical Propaganda imoni W. H. Uzerzhinskiv) and the Nauchno-issledovatel'skiy institut tekhnologii i organizatsii proizvodstva (Scientific Research Institute of Technology and Production Organization). Delegates from about 150 plants, institutes and design offices were present. Professor V.V. Boytsov stated in his proper "Normalization" Research Machania Card 1/5 ted in his report "Normalization Bases of Mechani-

S/028/60/000/02/022/024 D041/D002

Conference on Complete Normalization of the Production Process Elements

zation and Automation of Production Processes" that small-series production works are very little mechanized and automated. The new trend of automation is by means of special machines and automatic lines with extensive use of exchangeable units. After an analysis of parts classification and operations, it can be assumed that about 40% of machine tools of plants with small-series production output can be fitted with special cutting equipment, and up to 90% of all equipment elements can be normalized in the machine-tool industry. There are 72 unit-head machine tools at a plant, they brought about an annual economy of 2300 thousand rubles. Many of them were assembled in a few weeks. They may be easily taken apart and the unit heads rearranged into different combinations. The idea suits other equip-

Card 2/5

\$/028/60/000/02/022/024 D041/D002 Conference on Complete Normalization of the Production Process Elements ment, and plants will be able to mechanize and automate their equipment on their own. Engineer M.I. Dobromyslin, in his report on the basic principles of "agregatirovaniye" (unit-heads) of machine tools said that types of unit-heads are normalized, and unit-heads for machines and lines must be standardized. Engineer I.Ya. Serdyukov spoke on experience with the use of such machine tools, mentioning that the "AS-19" unit-head machine cut down to 3.7 hours the former 10.6 hours required for machining a casing; 65 unit-head machine tools assembled at a plant gave 2308 thousand rubles annual economy. Zavod im. Vladimira Il'iycha (Imeni Vladimir Il'iych Plant) and Moskovskiy karbyuratornyy zavod (Moscow Carburetor Plant) have acquired experience in com-Card 3/5 bining the unit-head machine tools. Engineer V.V.

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Conference on Complete Normalization of the Production Process

Kuz min reported on the basic trends and methods of the normalization of auxiliary equipment. Engineer Sh.G. Rubin spoke of normalization of the electric equipment elements and the possibilities of automatic and semi-automatic welding with frequently changing work. Engineer A.Z. Ramm reported on unification of foundry equipment, ingot molds and technological casting process elements for large aluminum castings, saying that some plants and institutes are now designing and using large ingot molds and casting machines without any normalization or unification of the major and auxiliary equipment, which considerably reduces the economical gain. Candidate of Technical Science V.V. D'yachenko spoke on typization and normalization of welding technology and the importance of special welding equipment consisting of nor-

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\$/028/60/000/02/022/024 D041/D002

Conference on Complete Normalization of the Production Process Elements

> malized component units. Engineer Bryskin-Lyamin discussed the problems of normalization of special auxiliary foundry equipment and major foundry equipment elements. Candidate of Technical Science Y.A. Leonov spoke on the normalization problems for work processes and major and auxiliary equipment of blank-stamping shops. Engineer I.G. Naydov reported on technical and economic effects of over-all normalization of all elements of technological processes. The conference approved the new trends and marked measures for practical application.

Card 5/5

FROLOV. Ye. S. Cand Tech Sci -- (diss) "Study of the condition of two-cycle piston vacuum pump." Mos, 1958. 10 pp (Min of Higher Education USSR. Mos Order of Lenin and Order of Labor Red Banner Higher Tech School im N. E. Bauman), 150 copies (KL, 52-58, 103)

-794 -

FroLow, Ja.S.

14(1)

PHASE I BOOK EXPLOITATION

SOV/2472

- Væsoyuznyy nauchno-issledovatel'ski**y** i konstruktorskiy institut khimicheskogo mashinostroyeniya
- Konstruirovaniye i issledovaniye kompressorov i vakuum-nasosov (Design and Investigation of Compressors and Vacuum Pumps) Moscow, Mashgiz, 1958.

 90 p. (Series: Its: Sbornik statey, 22) 5,000 copies printed.
- Ed.: V.A. Rumyantsev, Engineer; Ed. of Publishing House: A.M. Monastyrskaya; Tech. Ed.: A.F. Uvarova; Managing Ed. for Literature on Machine Building and Instrument Construction (Mashgiz): V.V. Pokrovskiy, Engineer.
- PURPOSE: This collection of articles is intended for scientists and engineers working in the field of compressor manufacture, and also for students of vuzes specializing in compressors and vacuum pumps.
- COVERAGE: The booklet consists of five articles. The first article presents investigation results and design data for determining resistances in strip-type automatic diaphragm values. The second articles presents for the first time results of the investigation of large diameter diaphragms used in diaphragm-type compressors. The third article presents, also for the first time, experimental results and methods for designing metallic packings for piston-compressor Card 1/2

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| rods. The fourth article presents test results and theoretical data for signing two-stage piston vacuum pumps. The last article presents data on designing diffusion-type oil vacuum pumps. No personalities are mentioned References follow each article. | de- |
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| Pomerantsev, A.A., Professor, Doctor of Physical and Mathematical Sciences and K.P. Shumskiy, Candidate of Physical and Mathematical Sciences. The Theory of High-vacuum Steam-injector Pump Nozzles | Q ₂ |
| AVAILABLE: Library of Congress | 81 |
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| Card 2/2 | GO/gmp 11-24-59 |

VROLOV, Ye.S., inzh.; LUBENETS, V.D., kand. tekhn. nauk.

Volume and energy characteristics of double-stage vacuum pumps with valve distribution. Shor. st. NIIKHIMMASH no.22:65-80 '58. (Vacuum pumps) (MIRA 11:6)

FROLOV, Ye.S., kand.tekhn.nauk

Slip coefficient for two-stage piston vacuum pumps. Izv.vys. ucheb.zav.; mashinostr. no.4:20-24 159. (MIRA 13:4)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana. (Vacuum pump)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513810012-0"

LUBENETS, V.D., kand.tekhn.nauk, dots.; FROLOV, Ye.S., kand.tekhn.nauk; VASIL'YEV, V.I., insh.; VLASOV, V.M., insh.; ZAKHAROV, B.D., insh.

Investigating the performance of the VN-120 vacuum-pump. Izv. vys. licheb.zav.; mashinostr. no.4:166-171 '59. (MIRA 13:4)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana.
(Vacuum pumps)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513810012-0"

一种原理工程型型的

AUTHOR: Frolov, E.S. Engineer SOV/122-59-3-5/42

TITLE: On the Design of Two-Stage Vacuum Piston Pumps (O

konstruirovanii dvukhstupenchatykh porshnevykh vakuum-

nasosov)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 3, pp 20-23 (USSR)

ABSTRACT: An investigation carried out at the Moscow Technical University (MVTU) Imeni Bauman is reported, whose object was the determination of the minimum permissible ratio of the swept volumes of the first and second stages in a vacuum pump and the effect of the volume of the inter-stage container on this ratio and on the behaviour of the pump. Changing the volume ratio was accomplished by varying the speed of the second stage. An additional test was carried out with the second-stage volume reduced by a pressed-in cylinder liner. The cross-section of the stage is shown in Fig 1. The swept volume ratio was varied between 1.0 and 0.1. Fig 2 is a plot of

different stage volume ratios. Fig 3 shows the intermediate pressure as a function of the same ratio together with the achieved vacuum and illustrates the negligible

the volumetric output against the vacuum achieved at

SOV/122-59-3-5/42

On the Design of Two-Stage Vacuum Piston Pumps

effect of the intermediate on the final pressure vacuum.

Fig 4 shows the intermediate pressure as a function of the final vacuum for different stage volume ratios. Fig 5 illustrates the same dependence carried to migh higher final pressures. A reduction in the stage volume ratio leads to a more even distribution of pressure ratios by stages and thus reduces the overall power consumed. The recommended ratio is 0.15 to 0.2. The volumetric output lost thereby (4-10%) can be restored by increasing the mean piston speed of the second stage up to 3-4 m/sec. This is stated to raise the putput by a factor of 3. A two-stage pump so designed under the direction of Lubents, V.D., Candidate of Technical Sciences, Lecturer, based on the vacuum pump of the Shebekino Mach.-Building Works (Shebekinskiy Mashinostroitel'nyy Zavod) is illustrated in cross-section in

SOV/122-59-3-5/42

On the Design of Two-Stage Vacuum Piston Pumps

Fig 6. In this design the second stage acts as the control (spool) valve for the first stage. There are 6 figures and 3 Soviet references.

Card 3/3

sov/122-59-3-36/42

AUTHOR: Frolov, Ye.S.

TITLE:

Investigation of the Operation of a Two-Stage Vacuum Piston Pump (Issledovaniye raboty dvukhstupenchatogo

porshnevogo vakium-nasosa)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 3, p 87 (USSR)

ABSTRACT: Author's summary of a dissertation submitted to the
Moscow Technical University (Moskovskoye Vyssheye
Tekhnicheskoye Uchilishche Ordena Lenina I Ordena
Trudovogo Krasnogo Znameni Imeni Baumana) for the
attainment of the Degree of Candidate of Technical
Sciences. On the basis of experimental work, the
volumetric and power properties of the vacuum pump have
been established; the coefficients which characterise
the pump operation have been formulated. The components
of the coefficient of evacuation and the relationship
between the volumes of the two stages, appropriate in

Card 1/2 practice, have also been found. The effect of the

SOV/122-59-3-36/42
Investigation of the Operation of a Two-Stage Vacuum Piston Pump mean piston speed, the cross-sectional area of the cylinder ports and the effect of the angular range of port opening on the output and degree of evacuation produced by the pump have been established.

Card 2/2

KOZLOV, V., inzh.; FROLOV, Ye., kand.tekhn.nauk

Measurement of the temperature of a working body in the cylinder of a heat engine. Khol.tekh. 37 no.4:9-13 Jl-Ag '60.

(MIRA 13:11)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. N.E. Baumana. (Compressors) (Temperature—Measurement)

CIA-RDP86-00513R000513810012-0 "APPROVED FOR RELEASE: 06/13/2000

(MIRA 15:10)

ZEDGINIDZE, G.P.; FROLOV, Ye.S., kand. tekhn. nauk, retsenzent; STROGANOV, L.P., inzh., red.; DEMKINA, N.F., tekhn. red. [Measuring the temperature of rotating machine parts]Izmerenie temperatury vrashchaiushchikhsia detalei mashin.
Moskva, Mashgiz, 1962. 270 p. (MIRA 15:10)
(Thermometry)

GOLOVINTSOV, A.G., doktor tekhn.red, prof. [decemsed]; RUMYANTSEV,
V.A., dots.; AlDASHEV, V.I.; PESHTI, Yu.V.; PLASTISIN, P.I.;
SUSLOV, A.D.; FROLOV, Ye.S.; YAMINSKIY, V.V.; STRAKHOVICH, K.I.,
doktor tekhn.nauk, prof., retsenzent; PALFYEV, N.M., inzh., red.

[Rotary compressors] Rotatsionnye kompressory. [Ry] A.G.
Golovintsov i dr. Moskva, Izd-vo "Mashinostroenie," 1964.
314. p. (MIRA 17:7)

1. Fakul'tet teplovykh i gidravlicheskikh mashin Monkovskogo
vvashego tekhnicheskogo uchilishcha imeni N.Ye. Faumana
'for all except Strakhovich, Paleyev').

MATSIGRAS, G.; SERGEYEV, A.; FROLOV, Yu.

Improving the repairing of oil pumps. Avt.transp. 40 no.4:
25-27 Ap '62.

(Oil hydraulic machinery--Maintenance and repair)

GRAMENITSKIY, V.N.; FROLOV, Yu.A.; KHANSUVAROV, K.I.

Grade 0,02 standard manometer with measurement limits from 0 to 2,5 kgf/cm². Izm.tekh. 10.11:19-20 N '61.

(MIRA 14:11)

(Manometer)

ANASTASIYEV, Petr Ivanovich; ZELENETSKIY, Mikhail Mikhaylovich; FROLOV, Yuriy Aleksandrovich; KRASOVSKIY, K.F., red.; BUL'DYAYEV, N.A., tekhn. red.

[Overhead electric power distribution lines of industrial enterprises]Vozdushnye linii elektroperedachi promyshlennykh predpriiatii. Moskva, Gosenergoizdat, 1962. 279 p. (MIRA 15:12) (Electric power distribution) (Electric lines--Overhead)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513810012-0"

ANASTASIYEV, Petr Ivanovich; FROLOV, Yuriy Aleksandrovich; KAMINSKIY, Ye.A., red.; FRIDKIN, L.M., tekhn. red.

[Overhead power transmission lines with carrying capacity up to 1000 volts] #6sdushnye linii do 1000 v. Moskva, Gosenergoizdat, 1963. 87 p. (Biblioteka elektromontera, no.87) (MIRA 16:5)

(Electric lines--Overhead)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513810012-0"

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AMASTASIYEV, Petr Ivanovich; FHOLOV, Yuriy Aleksandrovich;
KARSAULIDZE, A.N., red.

[Construction and erection of 3-10 kv. lines; construction operations] Sooruzhenie i montach linii 3-10 kv;
stroitel'mye raboty. Moskva, Energiia, 1964. 46 p.
(Biblioteka elektromontera, no.131) (MIRA 17:9)

ZVENIGORODSKIY, Iosif Solomonovich; FROLOV, Yuriy Aleksandrovich; KAYETANOVICH, M.M., red.

[Steel wires and busbars in electrical networks with ratings up to 1,000 volts] Stal'nye provoda i shiny v elektricheskikh setiakh do 1 000 v. Moskva, Izd-vo "Energiia," 1964. 55 p. (Biblioteka elektromontera, no.125)

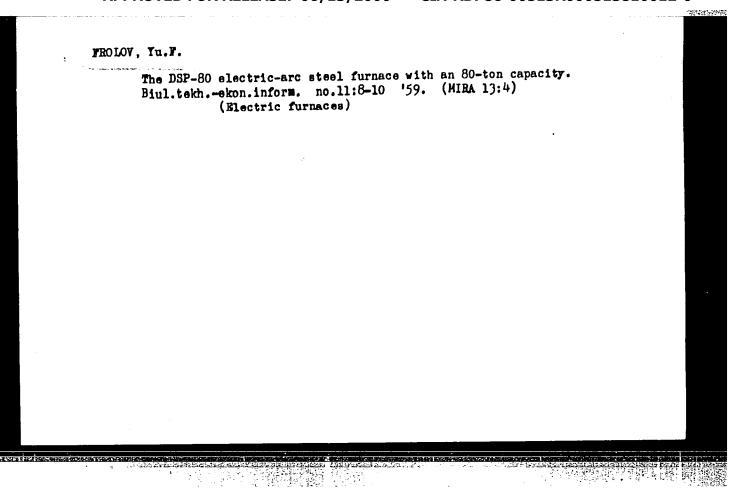
APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513810012-0"

ANASTASIYEV, Petr Ivanovich; FROLOV, Yuriy Aleksandrovich;
KARSAULIDZE, A.N., red.

[Construction and erection of 3-10 kv. power transmission
lines; erection operations] Scorushenie i montash linii
3-10 kv; montashnye reboty. Moskva, Emergiia, 1965. 47 p.
(Biblioteka elektromontera, no.155) (MIRA 18;6)

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s/078/60/005/05/10/037 B004/H01**6**

21.1320 5.2200 AUTHORS:

Yegorov, G. F., Fonin, V. V., Frolov, Yu. G., Yagodin, G. A.

TITIE;

Solvate Forms of Zirconium- and Hafnium Nitrates With Tri-

butyl Phesphate

PERTODICAL:

Zhurnal noorganicheskoy khimii, 1960, Vol. 5, No. 5,

pp. 1044-1050

TEXT: In the introduction, the authors mention in brief the problems dealt with: preparation of zircenium with a minimum hafnium content, investigation of the mechanism of the $(C_AH_9O)_3PO$ (TBP) extraction, investigation of the

solvate form. Next, they describe the purification of the reagents. The partition coefficients of Zr and Hf were determined by means of Zr 5 and Hf 181. The resultant Nb 95 was separated from Er 95 by means of MnO₂. The extractions were carried out at 200 and at a zirconium- and hafnium concentration of 1005 moles/1. First of all, the extraction of nitric acid by tributyl phosphate (TPP) at different acidity and concentration of the NO₃

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Solvate Forms of Zirconium- and Hafnium Nitrates With Tributy) Phosphate

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ions was investigated. In this connection, the authors refer to papers by A. S. Solovkin (Ref. 2), A. M. Rozen (Ref. 6), V. V. Fomin, and Ye. P. Mayorova (Refs. 3,4,7). The existence of the complexes TBP.HHO₃ and The 2000, assumed by the Inst-mentioned authors in Ref. 7, and the values of their instability constants (0.22 and 0.00044) were confirmed experimentally (Table 1). Xylene was used as the solvent for TEP. The dependence of the artric-acid extraction on the concentration of hydrogen ions and in the presence of NaNO3, NH $_4$ NO3, LikO3 or Mg(NO3), to shown in table 2. The mechanism assumed of HNO, extraction holds in a wide single also in the presence of an excess of $80\frac{1}{3}$ aces. It is proved for the extraction of Zr and Hf that the partition coefficients & are proportional to the concentration of free TBP in the organic phase. Tre number of solvating TBP molecules suc determined from the dependence of leng on $\log(\text{TBP})_{\text{org}}$. Experimental data for zirconium are presented in table 4, for hafnium in table 4. It resulted that partition coefficients of Zr and Ht increased with increasing TBP con-Cara 3/3

Solvate Forms of Zirconium- and Hafnium Nitrates With Tributyl Phosphate

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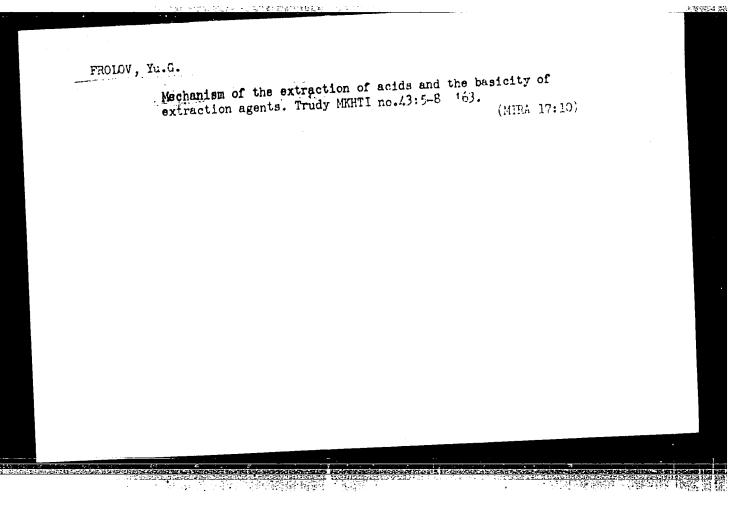
centration in the organic phase. On the basis of the diagram $\log \alpha$, log(TBP) (Fig. 1), the formation of the solvate $log(RO_3)_A$. TBP results, for low TBP concentrations and the solvate Ne(NO3)4.27BP for higher TBP concentrations. At HHO, concentrations of 5 moles/) the formation of more complicated complexes is assumed, which, however, was not further investigated. Figs. 2,5 depict the dependence of the partition coefficients of Zr and Ff on the hydrogen-ion concentration and the concentration of the acded nitrates. The X-values decrease with decreasing hydrogen-ion concentration. in: decrease, however, depends on the type of the added nitrate. In the presence of \mathbb{RH}_{4}^{+} and \mathbb{Ra}^{+} , bivalent ions, $\mathbb{Z}_{t}0^{3+}$, or $\mathbb{Z}_{r}(0\mathbb{E})_{2}^{2+}$ are dissolved. The deviation of the dependence of of from linearity in the presence of lit and Mg2+ is explained by a stronger hydration of these ions. There are 3 figures, 4 tables, and 7 references, 6 of which are Soviet. SUBMITTED: February 4, 1959

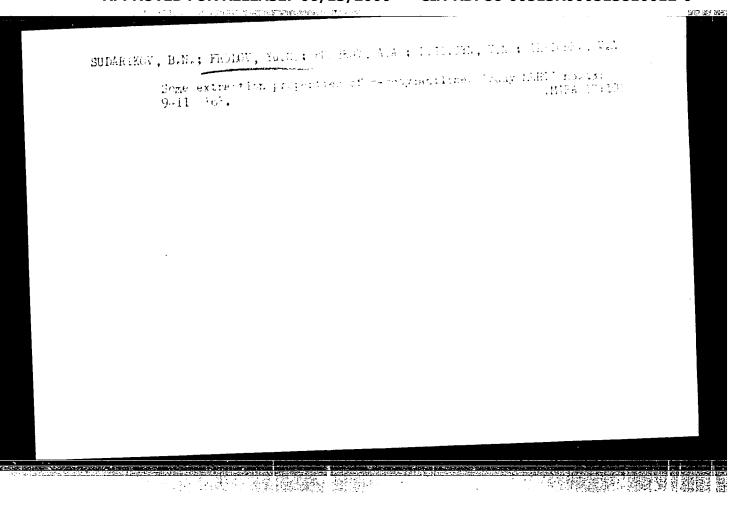
Card 4/3

FROLOV, Yu.G.; OCHKIN, A.V.

Problems involved in the mechanism of extraction. Zhur.neorg.(MIRA 15:6)

(Extraction (Chemistry))





SUDARIKOV, B.N.; FEOLOV, Yu.G.; IL'ICHEV, V.A.; FESHKOV, A.A.; TAKHAROVHARTSISSOV, O.I.; OCHKIN, A.V.

Physicochemical properties of some n-aliphatic amines. Trudy
MKHTI no.43:21-28 '63. (HIPA 17:10)

FROLOV, Yu.G.; SELGIYEVSKIY, V.V. Reaction of sulfuric acid with tri-m-cotylamine in organic solvents. Trudy MCHTI no.43:58-63 163. (MIRA 17:10)

ZVYAGINTSEV, O.Ye.; FROLOV, Yu.G.; SEDARIKOV, B.H.

Mechanism of the extraction of tetra- and hexavalent uranium nulfates by tri- and di-n-octylemines. Trudy MKHTI no.47:134- (MEA 18:9)

139 '64..

FROLOV, Yu.G.; SERGIYEVSKIY, V.V.

Effect of n-octyl alcohol on the extraction of sulfuric acid
with tri n-octylamine. Zhur. neorg. khim. 10 no.3:697-702
Mr 165.

(MIRA 18:7)

ZVYAGINTSEV, 0.Ya.; FROLOV, Yu.G.; CHEN' TSZIN'LEAN; VAL'ROV, A.V.

Extraction of sulfuric scid and ura yl sulfate with N-alkylanilines.
Zhur.neorg.khim. 10 no.4:981.985 Ap 165. (MIRA 18:6)

ZVYAGINTSEV, O.Ye.; FROLOV, Yu.G.; PUSHKOV, A.A.; DUSHEZ, E.

Extraction of inorganic acids by antline derivatives. Zhur.
neorg. khim. 10 no.2:512-517 F '65. (MIRA 18:11)

1. Submitted Sept. 16, 1963.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513810012-0"

YALABINA, A.V.; TYUKAVKINA, N.A.; YASHINA, O.G.; MAKHNO, L.P.; FROLOV, Yu.L.

Synthesis and properties of vinyl ethers of some higher phenols. Izv.vys.ucheb.zav.;khim.i khim.tekh. 4 no.4:626-631 '61.

(MIRA 15:1)

1. Irkutskiy gosudarstvennyy universitet imeni Zhdanova, kafedra vysokomolekulyarnykh soyedineniy i organicheskogo sinteza.
(Phenols) (Ethers)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513810012-0"

FROLOV. Yu.L.; FILIPPOVA, A.Kh.; KALABINA, A.V.; POGODAYEVA, L.K.; TYUKAVKINA, N.A.

Physical studies in the area of unsaturated aryl ethers and their derivatives. Part 1: Spectra of vinyl substitutes ether of phenol. Zhur.strukt.khim. 3 no.6:676-679 '62. (MIRA 15:12)

1. Irkutskiy gosudarstvennyy universitet.
(Phenol) (Ethers-Spectra)

KALABINA, A.V.; DUBINSKAYA, E.I.; FILIPPOVA, A.Kh.; FROLOV, Yu.L.;
RATOVSKIY, G.V.

Synthesis of vinyl ethers of nitro- and halonitrophenols. Izv. vys.ucheb.zav.; khim. i khim.tekh. 7 no.2:232-236 164.

(MIRA 18:4)

1. Irkutskiy gosudarstvennyy universitet im. A.A.Zhdanova, kafedra vysokomolekulyarnykh soyedineniy.

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MAKSYUTIN, Yu.K.; FROLOV, Yu.L.; KALABINA, A.V.; SHEVELEVA, V.A.

Hydrogen bonding between phen 1s and viryl and aryl ethers.

Zhur.fiz.khim. 38 no.11:2604-2607 N '64. (MIRA 18:2)

1. Irkutskiy gosudarstvennyy universitet imeni Zhdanova.

FROLOV, Yu.L.; KALABINA, A.V.; FILIPPOVA, A.Kh.

Physical studies of unsaturated aryl ethers and their derivatives. Part 2: Capacity of an oxygen atom of transmitting electron effects. Zhur. struk. khim. 6 no.3:397-401 My-Je *65.

(MIRA 18:8)

1. Irkutskiy gosudarstvennyy universitet imeni A.A.Zhdanov.

Calculating the W-electron structure of certain simple vinyl others by the semiempirical method of a self-consistent MOLKAO Field. Izv. vys. ucheb. zav.; fiz. 8 nc.3:177-170 165.

1. Irkutskiy gosudarstvennyy universitet imoni A.A.Zhdanova.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513810012-0"

FROLOV, Yu.M., inzh.

Now method of installing grounding circuits. Mont. i spets. rab. v stroi. 24 no.7:23-24 Jl '62. (MIRA 15:6)

1. Vsesoyuznyy trest po elektrifikatsii promyshlennykh predpriyatiy tsentral'nykh rayonov SSSR.

(Electric currents—Grounding)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513810012-0"

FROLOV, Yu.M., inzh.; MATSNEV, L.M., inzh.

Hand welding of aluminum box-shaped busducts. Mont. i spets. rab. v

stroi. 25 no.3:15-16 Mr 163.

1. Vsesoyuznyy trest po elektrifikatsii promyshlennykh predpriyatiy tsentralinykh rayonov SSSR.

(Bus conductors (Electricity)—Welding)

(MIRA 16:2)

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CIA-RDP86-00513R000513810012-0

[1] 1955年多年的智慧的原则是国际的 医环境性间隔极限

10258-66 EWT(d)/EWT(m)/EWP(c)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(1)/EWA(c) ACC NR AP5026766 JD/HM SOURCE CODE: UR/0286/65/000/017/0048/0048 INVENTOR: Roshchin, V. V.; Grinenko, V. I.; Gusakov, G. I.; Frolov, Yu. M.; Novikov, V. I.; Turkov, I. I. ORG: none TITLE: Method of automatic TIG welding of fixed tube joints. Class 21, No. 174299 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 48 TOPIC TAGS: welding, metal welding, TIG welding, automatic ABSTRACT: This Author Certificate introduces a method of automatic TIG welding of fixed joints of pipes of any thickness. The welding is done with the electrode vibrating across the groove according to a program determined by the torch motion. Filler wire is fed at the moment when the electrode crosses it. A modified method, in which the direction of welding is reversed after each pass in accordance with the program and the filler wire is fed correspondingly from two sides, is mentioned. SUB CODE: 13/ SUBM DATE: 13May64/ ATD PRESS: 4/60 621.791.753.9-462

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AUTHOR: Frolov, Yu.N.

On Non-Homogeneous Equations of Infinite Order in a Generalized

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya I matematika, mekhanika, 1960, No.4, pp.3-13

TEXT: Let

(2)
$$f(z) = \sum_{k=0}^{\infty} a_k z^k, \quad a_k \neq 0 \quad (k=0,1,2,...)$$

be an entire function of the order q and of the type $\mathfrak{S} \neq 0, \infty$. Let exist

(3)
$$\lim_{k\to\infty} k^{1/3} \sqrt[k]{|a_k|} = (Ge_3)^{1/5}$$

Let $F(z) = \sum_{k=0}^{\infty} b_k z^k$ be an arbitrary function regular in $|z| < R < \infty$. Let the

generalized derivative

(4)
$$D^{n}F = D^{n}(F,f) = \sum_{k=n}^{\infty} b_{k} \frac{a_{k-n}}{a_{k}} z^{k-n}$$

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On Non-Homogeneous Equations of Infinite Order in a Generalized Derivative be also regular in |z| < R. Let further $\psi(t) = \sum_{k=0}^{\infty} c_k t^k$ be an integral sum of the order 9 and finite type \mathfrak{S}_{1}° . The author considers the equation (7) $M(F) = \Phi(z),$

where the operator M(F) is defined by

(5)
$$M(F) = \sum_{k=0}^{\infty} c_k D^k F$$

Lemma: If $\varphi(z)$ is an entire function of the order 3 and of the type σ_1 , $\epsilon>0$ and arbitrary, $\mu>0$ and fixed, then for a sufficiently large r there exists a circle within the annulus $r \le |z| \le (1+\mu)r$ on which $\ln |\varphi(z)| > -H(\mu)(\varepsilon_1 + \epsilon)|z|^3$,

where
$$H(\mu) = \left[2 + \ln \frac{8e(1+\mu)}{\mu}\right] \left[2e(1+\mu)\right]^{8}, |z| \geqslant r > r_{o}(\xi)$$
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S/055/60/000/004/005/007xx C111/C222

On Non-Homogeneous Equations of Infinite Order in a Generalized Derivative Theorem 1: Let $\delta > 0$ be arbitrary, fixed and $\phi(z) = \sum_k \alpha_k z^k$ be a function regular in the circle

$$|z| < \gamma(r) = \frac{\frac{(1+\delta)^{S}}{S}}{1+\delta} \left[\frac{M^{\frac{9}{5}}(r) + \frac{\sigma_{1}H}{S}}{e} \right]^{\frac{1}{3}},$$

where r>0, $H = \begin{bmatrix} 2+\ln\frac{8e(1+\delta)}{\delta} \end{bmatrix}$, $\begin{bmatrix} 2e(1+\delta) \end{bmatrix}^9$, $\mu(r) = (r^9 + \frac{\sigma_1}{\sigma})^{1/9}$. Then for every r < r there exists a particular solution of

(11) $M(F) = \dot{\phi}(z)$ being regular in $|z| < r_1$.

Theorem 2: If $\phi(z) = \sum_{k=0}^{\infty} z^k$ is an entire function, then there exists a solution of (11) being entire too.

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